

Amendments to the Abstract:

Please replace the Abstract of the Disclosure beginning on page 98, line 4 with the following:

A method for ~~separating a desired analyte~~ extracting nucleic acid from a fluid sample comprises the steps of introducing the sample into a cartridge having a sample flow path and a lysing chamber in the sample flow path. The lysing chamber contains at least one filter for separating cells or viruses from the sample. The sample is forced to flow through the ~~sample flow path, thereby capturing~~ lysing chamber to capture the cells or viruses with the filter, while used sample fluid flows to waste as the sample flows through the chamber. The ratio of the volume of sample forced to flow through the chamber to the volume capacity of the chamber is preferably at least 2:1, and the volume of sample forced to flow through the chamber is preferably at least 100 microliters. The captured cells or viruses are disrupted to release the analyte therefrom, and their nucleic acid, the ~~analyte~~ nucleic acid is eluted from the lysing chamber, and optionally the nucleic acid is amplified and detected in a reaction chamber of the cartridge.